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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/597,192	06/20/2000	William P. Bunton	1662-28800 (P00-2998)	6005

7590

02/26/2004

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EXAMINER

TSE, YOUNG TOI

ART UNIT PAPER NUMBER

2634

DATE MAILED: 02/26/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

Dr.

# Office Action Summary

Application No.

09/597,192

Applicant(s)

BUNTON ET AL.

Examiner

YOUNG T. TSE

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 20 June 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,2,8-13 and 17-19 is/are rejected.
- 7) ☒ Claim(s) 3-7 and 14-16 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 20 June 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 7.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Information Disclosure Statement*

1. The information disclosure statement filed 13 November 2000 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each U.S. and foreign patent; each publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

*The two U.S. Application Serial Numbers 09/596,980 and 09/597,190 are not considered because no copy of the applications has been provided. Applicants note the Serial No. 09/596,980 is now U.S. Patent No. 6,690,757 B1 and has been cited in the PTO-892 by the examiner.*

### *Drawings*

2. The drawings are objected to because the block pertaining elements within 700 and 701 in Fig. 7 and 830, 840, 850, and 860 in Fig. 8 need to have descriptive labels, in conformance with 37 CFR 1.84(n) and 1.84(o). For example, a descriptive label of "DECODER" should be inserted into Fig. 8 to properly describe element (850). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

***Specification***

3. The disclosure is objected to because of the following informalities: on page 1, lines 6-10, Applicants are requested to update the Serial No. 09/597,980, now U.S. Patent No. 6,690,757 B1. Appropriate correction is required.

***Claim Objections***

4. Claims 1-10 and 15-16 are objected to because of the following informalities: in claim 1, line 1, the word "that" should be deleted; wherein the dependent claims 2-10 are directly or indirectly depended upon claim 1; in claim 15, line 4, "decode" appears to read – decodes --; wherein claim 16 depends upon claim 15. Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

5. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

6. Claims 8 and 17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The claimed subject matter of claims 8 and 17 does not correspond to the disclosure of figure 8. For example, claim 8 claims the decoder is an 8B/10B code decoder, however, the decoder(s) 850 shown in Fig. 8 is a 10B/8B code decoder. Also see claim 17.

***Claim Rejections - 35 USC § 102***

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

8. Claims 1-2, 8-13, and 17-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Shin et al.

Shin et al. (U.S. Patent No. 5,974,464) discloses coding schemes for digital transmission system in Fig. 2.

Fig. 4 shows a functional block diagram of a video receiver in accordance with the present invention. The video link receiver comprises three differential receiver circuits, three data recovery modules, three decoders, and panel interface logic.

Fig. 6 shows the deserializer 34 receives the sequence of 10-bit characters produced by the encoder and generates 10-bit parallel received data upon bit lines.

Fig. 7 shows a block diagram depicting a transition controlled, DC-balanced encoding system capable of implementation within a high-speed digital transmission system.

With respect to claims 1, 9-12, and 18-19, the line receivers, the decoders, and a circuit for determining the sequence of received symbols is correct or incorrect due to inversion of the differential signals are clearly shown in Fig. 4 and discussed in column 5, lines 46-64, column 11, line 54 to column 13, line 57.

With respect to claims 2 and 13, the disparity codes are described in column 12, lines 30-55, although Shin does not explicitly show or suggest that the disparity code having a positive and negative disparity symbol. It is inherent and well known to a person skill in the art that the disparity code includes positive and negative disparity symbols since the input signal of the line receiver is differential signal.

With respect to claims 8 and 17, the decoder is an 8B/10B code decoder is described in column 9, lines 2-4.

***Allowable Subject Matter***

9. Claim 3-7 and 14-16 would be allowable if rewritten to overcome the objection(s) set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ng is related to a receiver interface for a non-industry standards that is compatible with AT Attachment Packet Interface's Task file.

Miracle et al., Gleichert et al., Widmer, and Jung et al., are related to method and apparatus producing run length of 8B/10B coding using positive and negative runing disparity codes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Young Tse** whose telephone number is **(703) 305-4736**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Stephen Chin**, can be reached at **(703) 305-4714**.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

P.O. Box 1450

Alexandria, VA 22313-1450

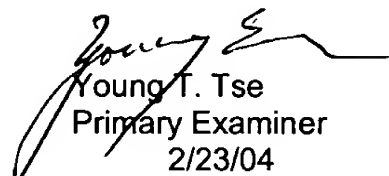
**or faxed to:**

**(703) 872-9306**

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Art Unit: 2634

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



Young T. Tse  
Primary Examiner  
2/23/04